

***Remarks***

Reconsideration of this Application is respectfully requested.

Upon entry of the foregoing amendment, claims 1, 2, 4-17, 26-29, 31-40, 49, and 51-60 are pending in the application, with 1, 26, 49, 53, and 57 being the independent claims. Claims 3, 30, and 50 are sought to be cancelled without prejudice to or disclaimer of the subject matter therein. New claims 53-60 are sought to be added. These changes are believed to introduce no new matter, and their entry is respectfully requested.

Based on the above amendment and the following remarks, Applicants respectfully request that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

***Allowable Subject Matter***

Applicants acknowledge with appreciation the Examiner's indication that claims 9-12 and 35-38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Applicants have accordingly added new claims 53-60, which correspond to allowable claims 9-12 and 35-38. New independent claims 53 and 57 correspond to allowable claims 9 and 35, including the limitations of their base claims and any intervening claims. Accordingly, Applicants respectfully request that these new claims be passed to allowance.

***Rejections under 35 U.S.C. § 102***

In paragraph 3 of the Office Action, claims 1-8, 13-17, 26-34, 39, 40, and 49-52 were rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,471,665 to Pace *et al.* (hereinafter Pace). Applicants respectfully traverse this rejection.

Technical differences exist between Pace and the claimed embodiments of the present invention. FIG. 1 of Pace shows a direct current (DC) offset compensation circuit 100 that includes a differential integrator 120. FIG. 2 shows differential integrator 120 including "a capacitor element 16 . . . connected across the differential outputs of a transconductance amplifier 18, a switch 17 controlled by the integrator reset control 122 and an amplifier 13" (see col. 3, line 63-col. 4, line 1). "Turning the switch 17 ON [using integrator reset control 122] ensures that the voltage across capacitor 16 (FIG. 2) is zero or near zero following power up of the circuit and minimizes the time for circuit stabilization. This effectively resets the differential integrator 120" (see col. 4, lines 55-59). "The gain  $gm_1$  of the transconductance amplifier 18 is controlled by integrator gain control 124" (see col. 4, lines 16-18).

This is very different from the claimed embodiments of the present invention. For example, claim 1, as amended, recites an integrator that has a time constant that is variable according to at least one control signal to vary a frequency response of the integrator. Nowhere does Pace teach or even suggest this. At most, Pace describes a control signal that resets an integrator (i.e., integrator reset control 122 that resets capacitor element 16), and a control signal that controls the gain of an amplifier (i.e.,

integrator gain control 124 controlling the gain of transconductance amplifier 18).

Nowhere does Pace teach or even suggest an integrator that has *a time constant that is variable* according to at least one control signal to vary a frequency response of the integrator, as recited in claim 1.

Thus, Applicants assert that claim 1 is patentable over Pace for at least the reasons described above. Furthermore, independent claims 26 and 49 are also patentable over Pace for at least these reasons, and further in view of their own features. Claims 2-8, 13-17, 27-34, 39, 40, and 50-52, which depend from independent claims 1, 26, and 49, are also patentable over Pace for the reasons describe above, and further in view of their own features. Accordingly, Applicants respectfully request that the rejection of claims 1-8, 13-17, 26-34, 39, 40, and 49-52 be reconsidered and withdrawn.

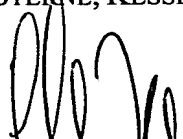
### ***Conclusion***

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

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